

Math 10-24: Elementary Statistics and Probability
De Anza College – Fall 2016

Class Meetings	Instructor	Email	Office Hours
T Th 1:30 – 3:45 L25	Yuan-Yuan Tang (Eva)	tangyuanyuan@fhda.edu	T Th 12:40 – 1:10 L82

Prerequisite

- MATH 114 or equivalent with a grade of C or better; or a qualifying score on the Intermediate Algebra Placement Test within the past calendar year.
- English Advisory: English Writing 211 and Reading 211 (or Language Arts 211), or English as a Second Language 272 and 273.

Student Learning Outcome

- Organize, analyze, and utilize appropriate methods to draw conclusions based on sample data by constructing and/or evaluating tables, graphs, and numerical measures of characteristics of data.
- Identify, evaluate, interpret and describe data distributions through the study of sampling distributions and probability theory.
- Collect data, interpret, compose and defend conjectures, and communicate the results of random data using statistical analyses such as interval and point estimates, hypothesis tests, and regression analysis.

Course Materials and Resources

- Introductory Statistics by Illowsky and Dean – required for the class.
 - Available FREE: <http://openstaxcollege.org/textbooks/introductory-statistics>
 - Available in print around \$35 at the bookstore.
- Graphing calculator: TI-83, 83+, 84 or 84+.
- Webassign: homework will be collected and graded using Webassign.
 - To get started, go to <http://webassign.net> and click on I HAVE A CLASS KEY. Enter key **deanza 4908 8032** into the boxes.
 - First & last name: Use your official registration name exactly as in MyPortal. Use same email address as in MyPortal for all college business.
 - Cost: About \$35 for the quarter; pay online with a debit or credit card. Free only for the first 2 weeks of the quarter. For students with financial aid vouchers, access codes are available in bookstore, but cost is slightly higher.
 - For technical help, contact Webassign directly: call (800) 955-8275 or go to <http://webassign.com/support-request>.
- Catalyst (<https://catalyst.deanza.edu>): Grades and class announcements will be posted on Catalyst. Check Catalyst every week to be current with the class.
- Bring to class: textbook, calculator (& spare batteries), pencil, eraser, notebook, ruler
- Bring to tests/exam: photo ID, calculator, #2 pencil, eraser, scantron

Grade

Your grade in this course will be based on homework, five quizzes, three midterm exams and a comprehensive final exam, calculated as follows:

Homework, drop 1	100 points	Lowest percentage for:		
6 Quizzes, drop 1	100 points	A+ : 97%	A : 93%	A- : 90%
3 Labs	90 points	B+ : 86%	B : 81%	B- : 78%
3 Tests	300 points	C+ : 76%	C : 68%	
Final Exam	<u>150 points</u>	D : 58%	F : 0%	
Total	<u>740 points</u>			

Homework (10 points each assignment, drop the lowest score)

There will be 11 assignments and each is due around quiz/test date. Homework is graded automatically on webassign. Submission for each question is limited to 2 attempts. It's always due at noon the following Tuesday after we finish the chapter. Late homework will NOT be accepted.

Quizzes (20 points each, drop the lowest score)

There will be six quizzes during the quarter. NO make-up quizzes will be given. A missed quiz will receive zero point. Your lowest quiz score will be dropped.

Lab Projects (30 points each)

Lab projects will be done in groups of up to four members. Turn in one copy with all of the group members' names on the top, and include a page listing each member's contribution towards the lab. Labs are due during the first 5 minutes of class and must be handed in to the instructor with all pages stapled together. Late papers will not be accepted. No handwritten labs will be accepted. Box plots and graphs should be hand drawn and need to be "very neat", to scale and labeled. All projects must use the data shared in class and will be started in groups in class.

Tests (100 points each)

There will be three 1-hour tests during the quarter. NO make-up tests will be given. A missed test will receive a zero score. The only exception is that if you missed a test due to emergency, with supporting documentation, that one test score will be replaced by your final exam score (scaled to 100). Any other missed tests will receive zeros.

Final Exam (150 points)

A comprehensive final exam will take place on **Tuesday, 12/13** 1:45-3:45 pm. NO make-up exam will be given. You must take the final exam to pass the course.

Notes for Quiz/Test/Exam

ONE page (8.5" by 11", 2 sided) of student's handwritten notes is permitted for quizzes and tests. TWO pages are permitted for final exam. If quiz/test/exam notes do not comply with requirements, they will be taken away and the student will take the quiz/test/exam with no notes. If English is a second language, a hard copy English translation dictionary is allowed.

Drop Policy

Attendance is integral to your success in this course. Per school policy, any student absent in the first week will be dropped from the class. After that, it is your responsibility to drop the class. A student who stops coming to class and does not officially withdraw from the course will receive an 'F'. No incomplete grade will be assigned.

Academic Integrity

All students are expected to exercise high academic integrity throughout the quarter. You are encouraged to work together but simply copying down answers from another student is not only wrong, but will not contribute to your learning. Any instances of cheating or plagiarism will result in disciplinary action, which may include getting a zero on the assignment, report to the PSME dean, which may lead to dismissal from the class or the college.

Classroom conduct

- Out of courtesy for your classmates, please mute the sound on your cell phone.
- Don't let your phone distract your learning process. Unless for emergency, it can wait.
- Remember to be courteous to everyone in the class, even when you disagree.
- Be ready to help your classmates and don't be afraid to ask for help when you need it.
- Please do not carry on conversations while someone else is talking. This is rude and disruptive.

Tutoring

Get help as soon as you have difficulty, while there is still enough time to catch up and improve. If you wait until you are behind, you will have a great deal of difficulty catching up.

- The Math, Science, and Technology Resource Center (S43) provides free math tutoring services. (www.deanza.edu/studentsuccess/mstrc/)
- The Student Success Center website (www.deanza.edu/studentsuccess/onlinetutoring/) has information of free online tutoring for De Anza students.

Tentative Calendar

Week	Tuesday	Thursday	Important Dates
1	9/27 Ch. 1	9/29 Ch. 2	
2	10/4 Quiz 1 Ch. 2, Lab 1	10/6 Ch. 3	Sat. 10/8: last day to add classes Sun. 10/9: last day to drop with no record
3	10/11 Lab 1 due Ch. 3, 4	10/13 Ch. 4, 5	
4	10/18 Test 1-3 Ch. 5	10/20 Ch. 6	Fri. 10/14: last day to request P/NP
5	10/25 Quiz 2 Ch. 6, 7, Lab 2	10/27 Ch. 7, 8	
6	11/1 Quiz 3 Ch. 8	11/3 Lab 2 due Ch. 9	
7	11/8 Test 4-8 Ch. 9, Lab 3	11/10 Ch. 10	
8	11/15 Quiz 4 Ch. 10	11/17 Lab 3 due Ch. 11	Fri. 11/18: last day to drop with a "W"
9	11/22 Quiz 5 Ch. 11	11/24 No Class	Thur. 11/24: Thanksgiving Holiday
10	11/29 Test 9-11 Ch. 12	12/1 Ch. 12	
11	12/6 Quiz 6 Ch. 13	12/8 Review	
12	12/13 Final Exam 1:45-3:45 pm		

Topics to Skip

Ch 3: Venn diagrams Ch 4: Poisson, Hypergeometric, Geometric Distributions
 Ch 5: Conditional Prob. (Uniform Dist.) Ch 7: Central Limit Theorem for Sums
 Ch 11: Test of a Single Variance Ch 13: Test of Two Variances